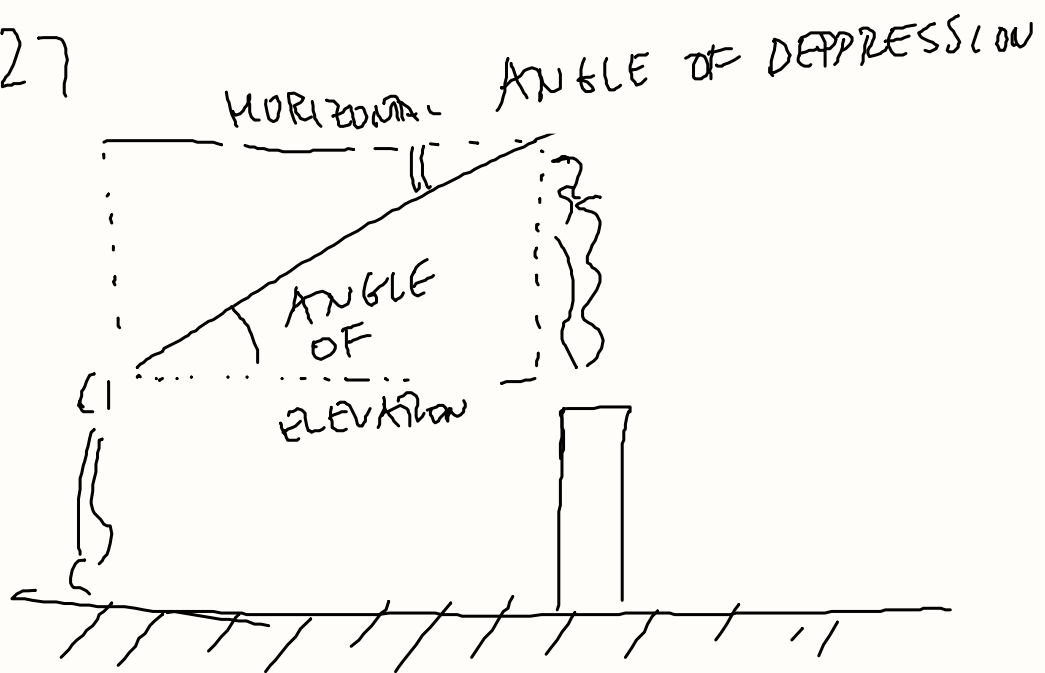
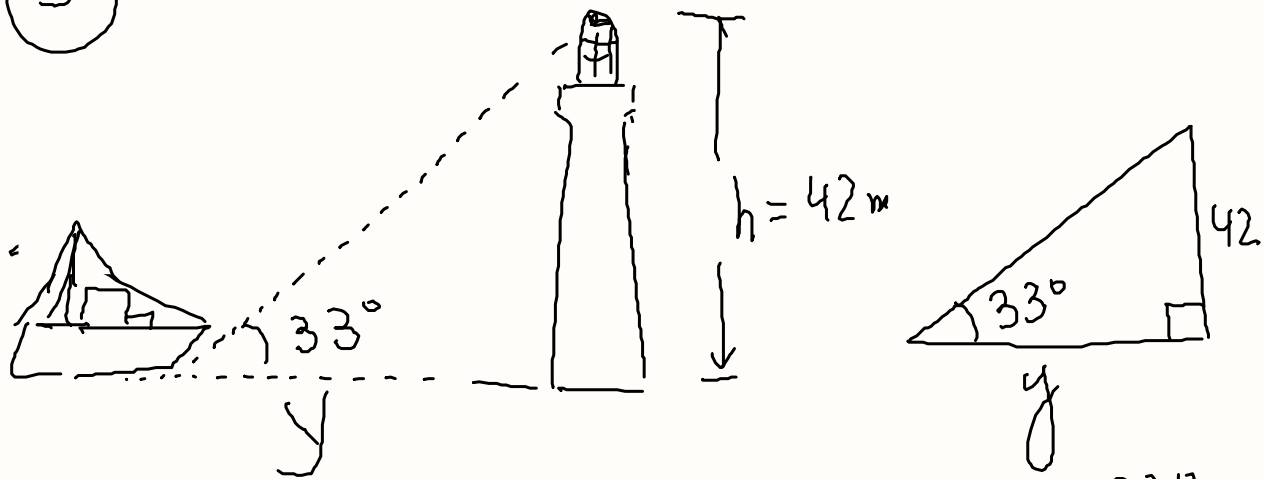


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3

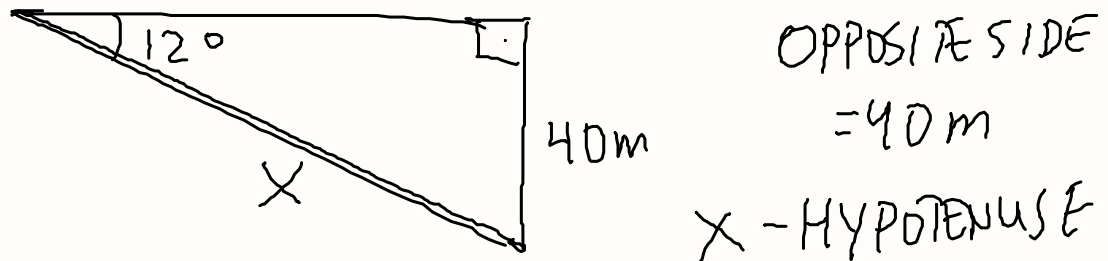


$$\tan 33^\circ = \frac{\text{OPPOSITE LEG TO } 33^\circ}{\text{ADJACENT LEG TO } 33^\circ} = \frac{42}{y}$$

$$\underline{0.65} = \frac{42}{y}$$

$$0.65y = 42 \quad y = \frac{42}{0.65} = 65\text{m}$$

4



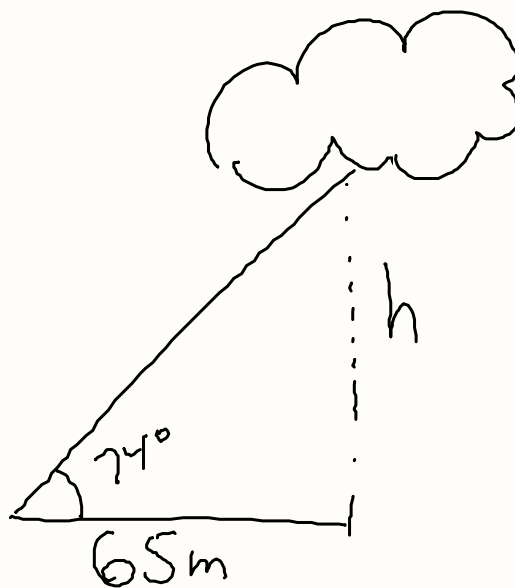
$$\sin 12^\circ = \frac{\text{OPPOSITE SIDE TO } 12^\circ}{\text{HYPOTENUSE}}$$

$$\frac{\sin(12)}{1} = \frac{40}{X}$$

$$0.21 \cdot X = 40$$

$$X = \frac{40}{0.21} = 190\text{m}$$

(5)  
p. 628

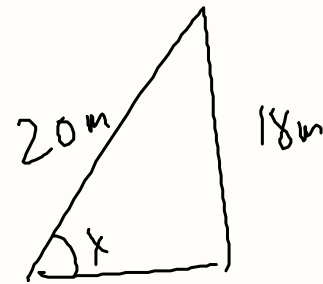
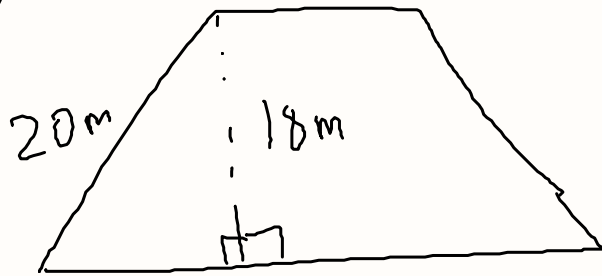


$$\tan 74^\circ = \frac{h}{65}$$

$$3.48 = \frac{h}{65}$$

$$226.2 = h$$

(a)  
p. 629



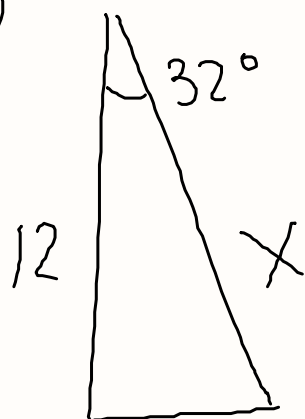
18m - OPPOSITE SIDE TO ANGLE X  
20m - HYPOTENUSE

$$\sin X = \frac{18}{20} = \frac{9}{10} = 0.9$$

$\sin^{-1} X$

$$\sin^{-1} 0.9 = 64^\circ$$

(10)



HOME

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